

SAVANNAH RIVER BASIN

02197342 SITE NO. 7 AT SAVANNAH RIVER SITE, SC

LOCATION.--Lat 33°14'40'', long 81°41'45'', Barnwell County, Hydrologic Unit 03060106, on right upstream end of concrete culvert pipe on Four Mile Creek at SRS Road A-7, 1.0 mi southwest of Area C, at Savannah River Site.

DRAINAGE AREA.--12.5 mi².

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Data collection platform. Elevation of gage is 155 ft above sea level (from topographic map).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Savannah River Site operations.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 6.8 | 4.7 | 6.4 | 6.7 | 7.6 | 7.7 | 12 | 5.0 | 7.9 | e5.5 | 7.9 | 16 |
| 2 | 6.5 | 4.7 | 7.0 | 6.9 | 7.5 | 7.8 | 11 | 4.6 | 4.8 | e4.8 | 5.8 | 9.8 |
| 3 | 6.4 | 4.5 | 6.8 | 6.6 | 6.9 | 20 | 12 | 4.4 | 5.0 | e5.1 | 5.3 | 9.9 |
| 4 | 5.9 | 4.9 | 6.7 | 6.7 | 8.0 | 50 | 12 | 4.3 | 12 | e9.7 | 5.3 | 14 |
| 5 | 6.0 | 4.1 | 7.3 | 6.9 | 7.4 | 18 | 12 | 4.3 | 8.0 | e8.8 | 5.5 | 7.6 |
| 6 | 6.2 | 3.8 | 7.3 | 6.6 | 7.2 | 13 | 13 | 4.1 | 5.5 | e6.7 | 5.2 | 7.0 |
| 7 | 6.0 | 3.9 | 7.0 | 6.3 | 6.6 | 10 | 10 | 4.5 | 7.7 | e7.0 | 5.1 | 8.2 |
| 8 | 5.1 | 4.3 | 6.4 | 13 | 6.9 | 10 | 9.6 | 4.4 | 11 | 4.8 | 4.7 | 6.1 |
| 9 | 5.1 | 3.5 | 6.7 | 11 | 7.5 | 9.9 | 9.2 | 5.6 | 7.0 | 4.2 | 4.8 | 5.7 |
| 10 | 4.9 | 3.5 | 7.8 | 8.1 | 7.9 | 9.9 | 8.9 | 5.7 | 7.1 | 4.5 | 5.8 | 6.1 |
| 11 | 5.4 | 3.2 | 7.8 | 7.1 | 7.0 | 8.9 | 8.3 | 4.2 | 4.7 | 4.0 | 11 | 11 |
| 12 | 5.1 | 3.1 | 7.2 | 9.4 | 9.1 | 9.1 | 8.0 | 5.7 | 3.9 | 32 | 5.5 | 32 |
| 13 | 5.1 | 3.5 | 6.9 | 9.2 | 8.8 | 13 | 7.7 | 9.1 | 23 | 50 | 5.4 | 11 |
| 14 | 4.8 | 4.9 | 7.0 | 8.8 | 8.1 | 9.8 | 7.5 | 5.5 | 14 | 14 | 11 | 8.8 |
| 15 | 4.8 | 5.2 | 7.0 | 7.4 | 7.6 | 49 | 9.5 | 5.1 | 6.0 | 10 | 8.0 | 5.8 |
| 16 | 4.9 | 4.7 | 7.1 | 7.9 | 7.8 | 31 | 9.7 | 4.5 | e6.0 | 7.5 | 7.8 | 5.2 |
| 17 | 4.9 | 6.1 | 8.6 | 10 | 7.5 | 16 | 8.4 | 4.2 | e7.2 | 6.1 | 6.0 | 5.1 |
| 18 | 4.7 | 8.3 | 7.4 | 8.6 | 7.0 | 13 | 7.1 | 4.1 | e5.4 | 5.9 | 7.8 | 5.1 |
| 19 | 5.7 | 17 | 7.0 | 9.6 | 6.9 | 10 | 7.0 | 4.3 | e5.8 | 5.1 | 12 | 4.8 |
| 20 | 5.2 | 15 | 6.8 | 34 | 7.0 | 24 | 6.7 | 4.8 | e5.8 | 5.1 | 6.5 | 5.2 |
| 21 | 4.6 | 7.9 | 6.0 | 15 | 7.0 | 29 | 6.6 | 5.7 | e5.8 | 5.2 | 6.0 | 5.0 |
| 22 | 4.9 | 8.6 | 5.5 | 13 | 23 | 16 | 6.6 | 4.3 | e6.5 | 5.6 | 5.8 | 4.9 |
| 23 | 4.9 | 7.8 | 5.3 | 9.2 | 16 | 14 | 6.8 | 5.2 | e5.8 | 15 | 5.2 | 4.6 |
| 24 | 4.6 | 6.1 | 5.5 | 8.7 | 12 | 11 | 6.8 | 4.5 | e4.7 | 21 | 4.7 | 6.7 |
| 25 | 4.7 | 23 | 5.7 | 8.5 | 15 | 12 | 12 | 3.3 | e5.5 | 9.8 | 4.2 | 6.6 |
| 26 | 4.9 | 15 | 5.5 | 8.0 | 14 | 12 | 9.7 | 3.4 | e6.7 | 6.7 | 4.0 | 5.8 |
| 27 | 4.5 | 11 | 5.8 | 7.9 | 8.7 | 12 | 7.2 | 3.0 | e7.9 | 6.2 | 3.9 | 5.5 |
| 28 | 4.6 | 7.8 | 9.5 | 7.3 | 7.9 | 16 | 6.2 | 3.7 | e9.7 | 6.5 | 4.6 | 5.5 |
| 29 | 4.7 | 7.7 | 14 | 7.5 | --- | 28 | 5.5 | 39 | e6.3 | 6.2 | 4.4 | 6.4 |
| 30 | 4.7 | 7.0 | 8.4 | 8.9 | --- | 34 | 5.1 | 20 | e5.5 | 11 | 4.6 | 5.2 |
| 31 | 4.7 | --- | 6.8 | 8.7 | --- | 16 | --- | 11 | --- | 11 | 5.0 | --- |
| TOTAL | 161.3 | 214.8 | 220.2 | 293.5 | 253.9 | 540.1 | 262.1 | 201.5 | 222.2 | 305.0 | 188.8 | 240.6 |
| MEAN | 5.20 | 7.16 | 7.10 | 9.47 | 9.07 | 17.4 | 8.74 | 6.50 | 7.41 | 9.84 | 6.09 | 8.02 |
| MAX | 6.8 | 23 | 14 | 34 | 23 | 50 | 13 | 39 | 23 | 50 | 12 | 32 |
| MIN | 4.5 | 3.1 | 5.3 | 6.3 | 6.6 | 7.7 | 5.1 | 3.0 | 3.9 | 4.0 | 3.9 | 4.6 |
| CFSM | .42 | .57 | .57 | .76 | .73 | 1.39 | .70 | .52 | .59 | .79 | .49 | .64 |
| IN. | .48 | .64 | .66 | .87 | .76 | 1.61 | .78 | .60 | .66 | .91 | .56 | .72 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 13.8 | 13.9 | 16.8 | 21.6 | 24.8 | 25.2 | 19.0 | 14.2 | 14.4 | 14.2 | 15.6 | 12.8 |
| MAX | 68.0 | 26.0 | 33.3 | 41.6 | 52.7 | 56.4 | 40.1 | 43.2 | 37.1 | 48.9 | 75.7 | 19.9 |
| (WY) | 1991 | 1980 | 1998 | 1998 | 1993 | 1998 | 1998 | 1984 | 1973 | 1991 | 1991 | 1998 |
| MIN | 5.20 | 7.16 | 7.10 | 9.47 | 9.07 | 12.0 | 7.63 | 5.21 | 5.80 | 6.29 | 6.09 | 6.66 |
| (WY) | 2001 | 2001 | 2001 | 2001 | 2001 | 1999 | 2000 | 2000 | 1990 | 2000 | 2001 | 1990 |

02197342 SITE NO. 7 AT SAVANNAH RIVER SITE, SC--Continued

| SUMMARY STATISTICS | FOR 2000 CALENDAR YEAR | FOR 2001 WATER YEAR | WATER YEARS 1973 - 2001 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 3481.0 | 3104.0 | |
| ANNUAL MEAN | 9.51 | 8.50 | |
| HIGHEST ANNUAL MEAN | | | 16.9 |
| LOWEST ANNUAL MEAN | | | 32.7 |
| HIGHEST DAILY MEAN | 257 | Sep 23 | 8.50 |
| LOWEST DAILY MEAN | 3.1 | Nov 12 | 1991 |
| ANNUAL SEVEN-DAY MINIMUM | 3.6 a | Nov 7 | 2001 |
| MAXIMUM PEAK FLOW | | c 135 | 830 |
| MAXIMUM PEAK STAGE | | Jul 12 | Aug 2 |
| ANNUAL RUNOFF (CFSM) | .76 | 3.37 | 1991 |
| ANNUAL RUNOFF (INCHES) | 10.36 | .68 | Aug 2 |
| 10 PERCENT EXCEEDS | 14 | 9.24 | 1.36 |
| 50 PERCENT EXCEEDS | 6.8 | 14 | 18.41 |
| 90 PERCENT EXCEEDS | 4.2 | 6.8 | 29 |
| | | 4.6 | 13 |
| | | | 7.3 |

a Also occurred Jun. 14, 17, 18, Jul. 22.

b Also occurred Jul. 13.

c From rating curve extended above 83 ft³/s based on step-backwater computations.

e Estimated

